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Revised Checklist of the Mosses of New York State

EDWIN H. KETCHLEDGE

Distinguished Teaching Professor
State University of New York
College of Environmental
Science and Forestry
Syracuse

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Contributions to a Flora of New York State, Checklist I
Richard S. Mitchell, Editor

1980

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New York State Museum

The University of the State of New York
THE STATE EDUCATION DEPARTMENT
Albany, New York 12230

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PREFACE

OUR GOAL is to produce a useful and authoritative account of the plants of New York State. Our primary means is to publish a series of treatments of families and genera by taxonomists knowledgeable in those groups. Also basic to long-term needs, is the production of checklists of plants known to occur in the State, so that specialists have a sound starting point for their monographic studies. A checklist of vascular plants is also in preparation.

This publication is a revision of a 1957 list by the same author. It incorporates an additional 22 years of field knowledge and herbarium study, gained through the cooperative efforts of Edwin H. Ketchledge and Stanley J. Smith. The publication of this work initiates the bryological sequence of flora contributions for New York State.

RICHARD S. MITCHELL, *Editor*

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DEDICATION



STANLEY JAY SMITH

1915-1978

Taxonomist, Colleague, Friend

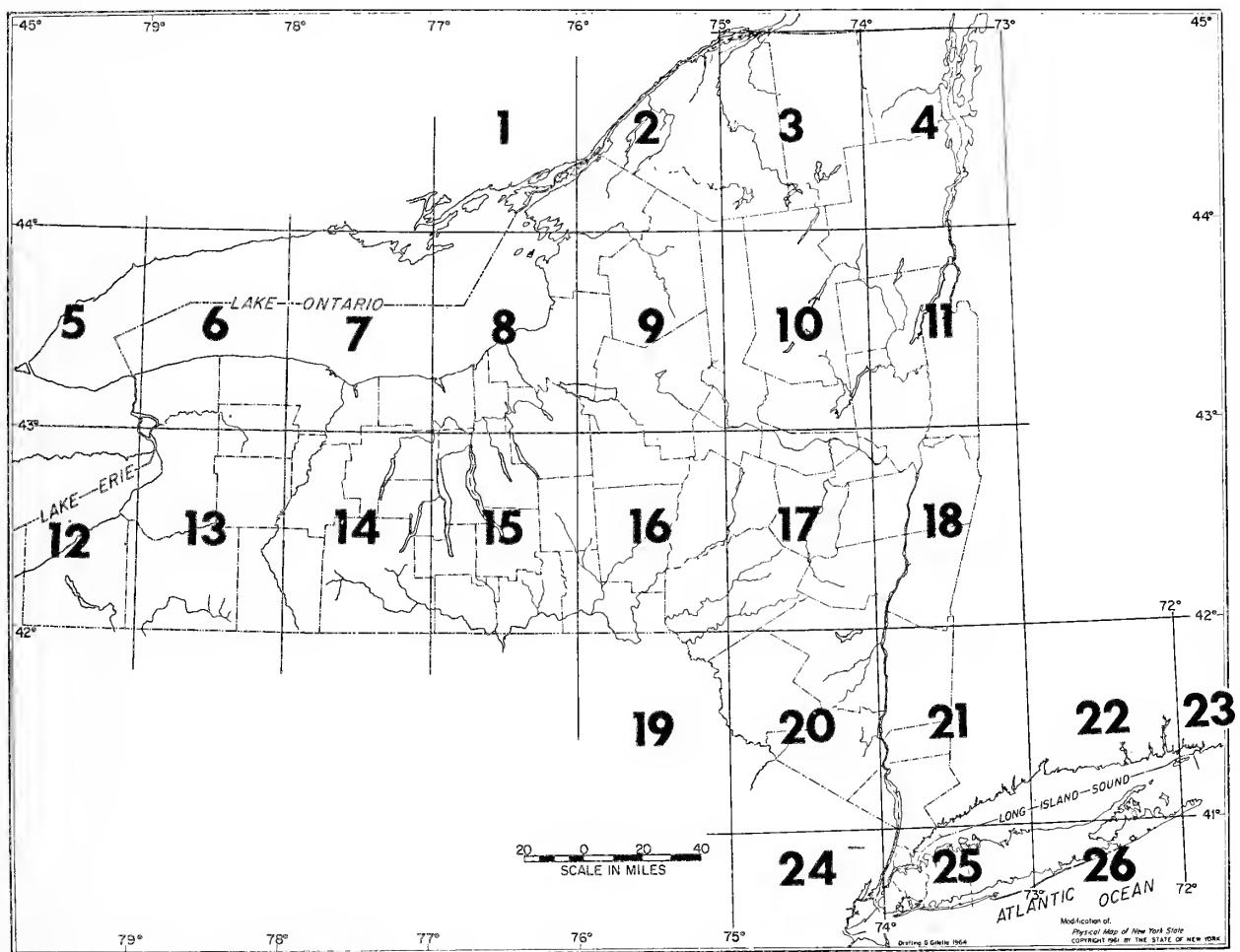
Stanley Jay Smith, by title Curator of Botany at the New York State Museum, was in truth a plant explorer, pioneering public understanding of the composition and the distribution of the flora of the State of New York. To me personally he was also instructing taxonomist for all plant groups, a professional colleague in bryology, and a close personal friend. I now dedicate this publication of our joint bryological efforts to him, Stanley Jay Smith, in recognition of his dedicated assistance to many professional and individual associates during his 30 years of public service to the people of the State of New York.

The New York State Flora Committee

The steering council of the New York State Flora Committee met for the first time on January 19, 1976, and established as its goals the promotion of study of the State's plant resources and the publication of this series of Museum Bulletins. These contributions will be continually updated after publication for possible incorporation into larger volumes at a later date.

Members of the council at the time of this publication are:

Richard S. Mitchell, Chairman, State Botanist, N.Y. State Museum, Albany (Vascular Plants)
Charles J. Sheviak, Curator of Botany, N.Y. State Museum, Albany (Vascular Plants)
Robert T. Clausen, Botany Department, Cornell University, Ithaca (Vascular Plants)
Edwin H. Ketchledge, College of Environmental Science and Forestry, Syracuse (Bryophytes)
Clark T. Rogerson, New York Botanical Garden, New York (Fungi)
George J. Schumacher, Biology Department, SUNY, Binghamton (Algae)



Distributional Districts. The numbers of districts on this map correspond with those heading the checklist.

INTRODUCTION

This Revised Checklist of the Mosses of New York State is an update of the earlier State Checklist published as Museum Bulletin Number 363 in 1957. The new catalog of species represents our expanded understanding of the floristic diversity and distribution of mosses in the State after 22 years of further study. Release of the Revised Checklist now concludes the inventory phase of our preparations of a State Moss Flora.

Nomenclature for Bryidae (453 species) and Andreaeidae (3 species), follows "A New List of Mosses of North America North of Mexico" by H. A. Crum, W. C. Steere and L. E. Anderson, *THE BRYOLOGIST* 76(1):85–130, 1973. Nomenclature of Sphagnidae (46 species) follows "Sphagnotheca Boreali-americana: A New Exsiccata of North American Sphagna North of Mexico," *THE BRYOLOGIST* 78(1):64–66 and "Sphagnotheca Boreali-americana: Fascicle II," *THE BRYOLOGIST* 80(4):645–647, both by Richard E. Andrus and Dale H. Vitt. All district records of Sphagna, both new records and verification of old ones, result from the research of Dr. Andrus, whose exclusive authorship of Sphagnidae is gratefully acknowledged.

Comparison of the number of taxa herewith reported reveals only a slight change from the first edition. The number of families has increased by 2 (to 47 families now), the number of genera by 4 (to 151), the species by 22 (to 461) and the number of atypical varieties reduced by 19 (to 42). More importantly, 897 district records are new to the list, an increase from 4,035 to 4,932; the majority of these additions were discovered by the author and his students at the College of Environmental Science and Forestry, and by Stanley J. Smith and his colleagues at the State Museum and Science Service. Many other botanists collecting on their own joined in the search over the years. In all, the names of over 60 field investigators are found on the labels of these additions and on hundreds of duplicates, thereby reflecting the increasing interest in bryological exploration around the State in recent years.

Even today, however, the district records are concentrated in the Adirondack (mostly Districts 3, 4, 10, 11) and Catskill (17, 18, 20) Mountains and in two western districts where professional bryologists have been most active, around Ithaca (District 15) and Buffalo (District 13).

District Records

District 1, 79 records	District 14, 197 records
District 2, 109 records	District 15, 286 records
District 3, 264 records	District 16, 156 records
District 4, 297 records	District 17, 313 records
District 5, 90 records	District 18, 289 records
District 6, 206 records	District 19, 81 records
District 7, 85 records	District 20, 255 records
District 8, 181 records	District 21, 151 records
District 9, 190 records	District 22, 160 records
District 10, 259 records	District 23, 78 records
District 11, 322 records	District 24, 151 records
District 12, 93 records	District 25, 218 records
District 13, 267 records	District 26, 148 records

The lower numbers of occurrences in several districts, of course, reflect the smaller land area in those "square" degrees of longitude and latitude.

Symbols for district records remain essentially identical to those of the 1957 list, namely,

- X = specimen examined and verified
- M = personal communication from
monographer or professional
bryologist
- L = literature report of species
present
- V = vicinity approximate
- ? = questioned report or locality

In addition to the indispensable contributions of Stanley J. Smith and Richard E. Andrus to the new revised list, several other recognized bryologists provided assistance when called upon from time to time. Dr. William C. Steere, who greatly aided with verifications in the first list, continues to be an inspiration, certainly for his taxonomic insights but especially for his enthusiasm and high scholarship, which is the envy and the aspiration of us all. Howard A. Crum over the years helped both Stanley and me with difficult determinations, and was unstinting in his bryological-nomenclatorial services to us. Norton G. Miller has been our most talented field investigator, turning up many exciting finds, and whose absence from the State now is sorely felt. Gary L. Smith, with similar talents, lent his expertise to difficult determinations or nomenclatorial problems, for which we are most appreciative. Both in the field and at the microscope, Nancy Slack was a stimulating associate, with discerning eyes for taxonomic subtleties and unerring "sense" of species identity. Babette Brown Coleman and her associates have been very helpful "filling in" the bryoflora of the Genesee region. And Richard Zander, in his monographic works, and Eric Randall, in his ecological studies, are now accumulating additional records from the western portion of the State. To these and other unnamed collaborators and field associates — particularly those who accompanied Stan or Dick or me on innumerable field trips these two decades — I extend my heartfelt thanks for their assistance, and I look forward to their individual participation in the preparation of the Moss Flora, now underway.

CATALOG OF SPECIES

Distributional Districts

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		
SUBCLASS SPHAGNIDAE																												
ORDER SPHAGNALES																												
SPHAGNACEAE																												
Sphagnum																												
angermanicum Melin						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						X		
angustifolium (Russow) C. Jens.						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						X		
centrale C. Jens.						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X						X		
compactum DC.						X	X	X		X	X	X	X	X	X	X	X	X	X	X						X		
contortum K. F. Schultz						X				X	X	X	X	X	X	X	X	X	X	X						X		
cuspidatum Hoffm.						X	X			X	X	X	X	X	X	X	X	X	X	X						X		
fallax (Klinggr.) Klinggr.						X	X	X		X	X	X	X	X	X	X	X	X	X	X						X		
fimbriatum Wils.						X	X			X	X	X	X	X	X	X	X	X	X	X						X		
flavicomans (Card.) Warnst.																											X	
flexuosum Dozy & Molk.						X	X	X		X	X	X	X	X	X	X	X	X	X	X						X		
fuscum (Schimp.) Klinggr.						X	X	X		X	X	X	X	X	X	X	X	X	X	X						X		
girgensohnii Russow						X	X	X		X	X	X	X	X	X	X	X	X	X	X						X		
henryense Warnst.										X	X	X	X	X	X	X	X	X	X	X						X		
imbricatum Russow						X	X			X	X	X	X	X	X	X	X	X	X	X						X		
jensenii H. Lindb.										X																	X	
lescuri Sull.						X	X	X		X	X	X	X	X	X	X	X	X	X	X						X		
lindbergii Lindb.										X																	X	
macrophyllum Brid.																											X	
magellanicum Brid.						X	X			X	X	X	X	X	X	X	X	X	X	X						X		
majus (Russow) C. Jens.						X	X			X	X	X	X	X	X	X	X	X	X	X						X		
molle Sull.										X																	X	
nemoreum Scop.						X	X	X		X	X	X	X	X	X	X	X	X	X	X						X		
palustre L.						X	X	X		X	X	X	X	X	X	X	X	X	X	X						X		
papillosum Lindb.						X	X			X	X	X	X	X	X	X	X	X	X	X						X		
platyphyllum (Braithw.) Warnst.										X																	X	
portoricense Hampe																											X	
pulchrum (Braithw.) Warnst.						X	X				X	X															X	
pylaesii Brid.						X	X																				X	
quinquefarium (Braithw.) Warnst.						X	X				X	X							X	X							X	
recurvum P.-Beauv.										X									X								X	
riparium Angstr.						X	X			X	X					X		X	X	X						X		
rubellum Wils.						X	X			X	X	X	X	X	X	X	X	X	X	X						X		
russowii Warnst.						X	X	X		X	X	X	X	X	X	X	X	X	X	X						X		
squarrosum Crome						X	X	X		X	X	X	X	X	X	X	X	X	X	X						X		
strictum Sull.																												X
subfulvum Sjörs										X																		X
subsecundum Nees						X	X			X	X	X	X	X	X	X	X	X	X	X						X		
subtile (Russow) Warnst.						X	X	X		X	X	X	X	X	X	X	X	X	X	X						X		
tenellum (Brid.) Brid.						X	X														X						X	
tenerum Sull. & Lesq.																												X
tenuifolium Warnst.						X				X																		X
teres (Schimp.) Ångstr.						X	X	X		X	X	X	X	X	X	X	X	X	X	X						X		
torreyanum Sull.										X	X								X	X							X	
trinitense C. Muell.																												X
warnstorffii Russow						X	X	X		X	X	X	X	X	X	X	X	X	X	X						X		
wulfianum Girg.						X	X			X	X	X	X	X	X	X	X	X	X	X						X		

SUBCLASS ANDREAEIDAE

ORDER ANDREAEALES
ANDREAEACEAE

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Andreaea																										
<i>crassinervia</i> Bruch						X																				
<i>rothii</i> Web. & Mohr		X	X			X		X			X	X				X		X	X		X			X		
<i>rupestris</i> Hedw.	X	X	X					X	X		X	X				X	X	X	X		X			X		
SUBCLASS BRYIDAE																										
ORDER FISSIDENTALES																										
FISSIDENTACEAE																										
Fissidens																										
<i>adiantoides</i> Hedw.	X	X	X	X	X	X		X	X	X	X	X	X	X	L	X	X	X	X	X	X		X	X	X	X
<i>bryoides</i> Hedw. var. <i>bryoides</i>						X		X	X		X	X	X	X	X	X	X	X	X	X	X					
var. <i>incurvus</i> (Starke ex Web. & Mohr) Roehl.																										
<i>bushii</i> (Card. & Thér.) Card. & Thér.		X	X	X	X	X	L	X			X		X	X	X	X	X	X	X	X	X	X				
<i>cristatus</i> Wills ex Mitt.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
<i>exiguus</i> Sull.																										
<i>exilis</i> Hedw.																										
<i>fontanus</i> (B.-Pyl.) Steud.		X				X																				
<i>grandifrons</i> Brid.			X			X	X	X			?		X	X	X	X	X									
<i>hallianus</i> (Sull. & Lesq. ex Aust.) Mitt.																										
<i>obtusifolius</i> Wils.																										
<i>osmundoides</i> Hedw.		X	X	X				X	X	X		X	X	X	X	X	X	X	X	X	X	X				
<i>subbasilaris</i> Hedw.								X				X	X	X	X	X	X	X	X	X	X	X				
<i>taxifolius</i> Hedw.	X		X	X	L	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>viridulus</i> (Sw.) Wahlenb.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ORDER ARCHIDIALES																										
ARCHIDIACEAE																										
Archidium																										
<i>alternifolium</i> (Hedw.) Schimp.																										
<i>ohioense</i> Schimp. ex C. Muell.																										
ORDER DICRANALES																										
DITRICHACEAE																										
Ceratodon																										
<i>purpureus</i> (Hedw.) Brid.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Distichium																										
<i>capillaceum</i> (Hedw.) B.S.G.	X	X				X					?															
Ditrichum																										
<i>ambiguum</i> Best		X	X			X		X			X	X														
<i>lineare</i> (Sw.) Lindb.		X	X			X		X			X	X														
<i>palidum</i> (Hedw.) Hampe			X	X		X		X			X	X	X	X												
<i>pusillum</i> (Hedw.) Hampe		X	X			X		X			X	X	X	X												
Pleuridium																										
<i>palustre</i> (Bruch & Schimp.) B.S.G.																										
<i>subulatum</i> (Hedw.) Rabenh.																										
Saelania																										
<i>glaucescens</i> (Hedw.) Bomanss. & Broth.	X	X						X	X			X														
SELIGERIACEAE																										
Blindia																										
<i>acuta</i> (Hedw.) B.S.G.	X	X						X	X			X														
Seligeria																										
<i>calcarea</i> (Hedw.) B.S.G.	X							X				X														
<i>campylopoda</i> Kindb. ex Macoun & Kindb.		X						X				V														
<i>donniana</i> (Smith) C. Muell.								X				X														
<i>recurvata</i> (Hedw.) B.S.G.		X						X				V														

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26			
DICRANACEAE																													
Arctoa						X																							
<i>fulvella</i> (Dicks.) B.S.G.																													
Bruchia											X									X									
<i>flexuosa</i> (Sw. ex Schwaegr.) C. Muell.																				X									
<i>sullivantii</i> Aust.																				X									
Cynodontium																													
<i>alpestre</i> (Wahlenb.) Milde						X	X																						
<i>strumiferum</i> (Hedw.) Lindb.						X	X																						
Dichodontium																					L								
<i>pellucidum</i> (Hedw.) Schimp.						X	X	X											X	X									
Dicranella																													
<i>cerviculata</i> (Hedw.) Schimp.						X														L									
<i>heteromalla</i> (Hedw.) Schimp.						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
<i>rufescens</i> (With.) Schimp.							L	X	X										X	X	X	X	X	X	X	X	X		
<i>schreberiana</i> (Hedw.) Schimp.						X			X										X	X	X	X	X	X	X	X	X		
var. <i>robusta</i> Schimp. ex Braithw.																				X									
<i>subulata</i> (Hedw.) Schimp.																				X									
<i>varia</i> (Hedw.) Schimp.						X	X	X			X	X	X	X	X	X	X	X	X	X						X	X		
Dicranodontium																				X	X								
<i>denudatum</i> (Brid.) Britt. ex Williams						X	X				X								X	X									
Dicranoweisia																													
<i>crispula</i> (Hedw.) Lindb. ex Milde						X																							
Dicranum																													
<i>bonjeanii</i> De Not. ex Lisa						X	L	X	X	X	L	X	X					X	X	X		X	-	X					
<i>drummondii</i> C. Muell.							X			X	X							X	X	X		X							
<i>elongatum</i> Schleich. ex Schwaegr.						X	X																						
<i>flagellare</i> Hedw. var. <i>flagellare</i>						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
var. <i>minutissimum</i> Grout																									X				
<i>fulvum</i> Hook.						X	X	X			L	X	X					X	X	X	X	X	X	X	X	X	X		
<i>fuscescens</i> Turn.						X	X		X			L						X	X	X	X	X	X	X	X	X	X		
<i>groenlandicum</i> Brid.						X																							
<i>montanum</i> Hedw.						X	X	X	X	V	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
<i>muehlenbeckii</i> B.S.G.							X				X							X	X	X									
<i>polysetum</i> Sw.						X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
<i>sabuletorum</i> Ren. & Card.						X	X		L					L				X	X	X	X	X	X	X	X	X	X	X	
<i>scoparium</i> Hedw.						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>spurium</i> Hedw.						X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>undulatum</i> Brid.						X	X				L	X	X							X	L	X							
<i>viride</i> (Sull. & Lesq. ex Sull.) Lindb.						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Kiaeria																													
<i>blyttii</i> (Schimp.) Broth.						X	X																						
<i>starkei</i> (Web. & Mohr) Hag.							X	X																					
Oncophorus																													
<i>wahlenbergii</i> Brid.						X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Paraleucobryum																													
<i>longifolium</i> (Hedw.) Loeske						X	X	X	X		X	L	X				X	X	X	X	X	X	X	X	X	X	X	X	
Rhabdoweisia																													
<i>crispata</i> (With.) Lindb.						X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Trematodon																													
<i>ambiguus</i> (Hedw.) Hornsch.						X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
LEUCOBRYACEAE																													
Leucobryum																													
<i>albidum</i> (Brid. ex P.-Beauv.) Lindb.											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>glaucum</i> (Hedw.) Ångstr. ex Fr.						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CALYMPERACEAE																													
Syrrhopodon																													
<i>incompletus</i> Schwaegr.																													L
<i>texanus</i> Sull.																													L

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26							
ENCALYPTACEAE																																	
Encalypta																																	
<i>ciliata</i> Hedw. var. <i>ciliata</i>			X	X		X		X			X		X	X		X	X				X												
var. <i>microstoma</i> (Bal. & De Not.)							V																										
<i>Schimp.</i>																																	
<i>procera</i> Bruch	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X			X					L								
<i>rhaftocarpa</i> Schwaegr.											X																						
ORDER POTTIALES																																	
POTTIACEAE																																	
Acaulon																																	
<i>muticum</i> (Hedw.) C. Muell. var. <i>muticum</i>																X									X	L	V						
var. <i>rufescens</i> (Jaeg.) Crum																L																	
<i>triquetrum</i> (Spruce) C. Muell.																	X	L															
Anoectangium																																	
<i>aestivum</i> (Hedw.) Mitt.																			X														
Astomum																																	
<i>muhlenbergianum</i> (Sw.) Grout																X		L	X		X	V	X		X	X							
<i>phascoides</i> (Hook. ex Drumm.) Grout																			X														
Barbula																																	
<i>convoluta</i> Hedw.			X	X		X										X	X	L	X	X	X					L							
<i>fallax</i> Hedw.	X			X	X											X	X	X	X	X	X	X											
<i>reflexa</i> (Brid.) Brid.				X															X														
<i>unguiculata</i> Hedw.	X	X	X	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X								
Bryoerythrophyllum																																	
<i>recurvirostrum</i> (Hedw.) Chen			X	X			X	X	X	X						X	X	X	X	X	X	X	X	X									
Desmatodon																X	L	L															
<i>obtusifolius</i> (Schwaegr.) Schimp.																			X	X													
<i>porteri</i> James ex Aust.																L																	
Didymodon																X					X	X											
<i>rigidulus</i> Hedw.			X														X																
<i>tophaceus</i> (Brid.) Lisa		X	X				X										X	X	X			X											
Gymnostomum																																	
<i>aeruginosum</i> Smith	X	X	X	X				X	X	X						X	X	X	X		X	X			X	X							
<i>calcareum</i> Nees, Hornsch. & Sturm			X				X	X	X	X						X	X	L	X		X												
<i>recurvirostrum</i> Hedw.	X	X	X	L			X	X	X	X						X	X	X	X		X	X	X	X	X	L	X						
Hyophila																X			X	X	?	V	X										
<i>involuta</i> (Hook.) Jaeg. & Sauerb.																																	
Phascum																	X	X	X	X	X	X	X	X	X	X	X	X					
<i>cuspidatum</i> Hedw.																	X	X	X	X	X	X	X	X	X	X	X	X					
Pottia																																	
<i>truncata</i> (Hedw.) Fuernr. ex B.S.G.								X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X					
Tortella																																	
<i>fragilis</i> (Drumm.) Limpr.			X	X	X											X					X								X				
<i>humilis</i> (Hedw.) Jenn.	X		X	X	X			X	X	X						X	X	X	X		X	X	X	X	X	X	X	X	X				
<i>tortuosa</i> (Hedw.) Limpr.	X	X	X	X	X	X		X	X	X						X	X	X	X		X	X	X	X	X	X	X	X					
Tortula																																	
<i>mucronifolia</i> Schwaegr.		X	X	X	X			X	X	X						X	X	X	X											X			
<i>muralis</i> Hedw.																																	
<i>papillosa</i> Wils. ex Spruce																																	
<i>ruralis</i> (Hedw.) Gaertn., Meyer & Scherb.		X	X	X	X			X	X	X						X	X	X	X														
var. <i>ruralis</i>		X	X	X	X			X	X	X						X	X	X	X														
var. <i>crinita</i> De Not.																																	
Trichostomum								X	X	X						X	X	X	X		X	X	X	X	X	X	X	X	X				
<i>tenuirostre</i> (Hook. & Tayl.) Lindb.		X	X					X	X	X						X	X	X	X		X	X	X	X	X	X	X	X	X				
Weissia																																	
<i>controversa</i> Hedw.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		
ORDER GRIMMIALES																												
GRIMMIACEAE																												
Grimmia																												
affinis Hoppe & Hornsch. ex Hornsch.						X																						
agassizii (Sull. & Lesq. ex Sull.)																												
Jaeg. & Sauerb.			X	X				X		X																		
alpicola Hedw. var. alpicola	X	X	X			X		X		X	X	X	X	X	X	X	X	X	X									
var. dupretii (Thér.) Crum			X							?																		
var. rivularis (Brid.) Wahlenb.			M																									
apocarpa Hedw. var. apocarpa	X	X	X	X	X	L	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
var. ambigua (Sull.) Jones				X							X										X			X				
var. conferta (Funck) Spreng.			X								X	X	X	X	X						X			X				
var. stricta (Turn.) Hook. & Tayl.		X	X								X	X														X		
cribrosa Hedw.																												
donniana Sm.		X	X								X	X									X							
laevigata (Brid.) Brid.																					X	X						
olneyi Sull.	X	X									X	X				X	X	X	X	X	X							
pilifera P.-Beauv.		X									X		X			X	X	X	X	X	X			X	X	X		
tenerima Ren. & Card.		X																			X							
unicolor Hook. ex Grev.		X		L							X	X																
Racomitrium																												
aciculare (Hedw.) Brid.		X	X								X	X	X								X	X	X	X	X	X	X	
aquaticum (Brid. ex Schrad.) Brid.		X																										
canescens (Hedw.) Brid.		X									X	X									X							
fasciculare (Hedw.) Brid.		X	X								?																	
heterostichum (Hedw.) Brid. var.																												
heterostichum		X	X								X	X									X							
var. alopecurum Hueb.		X	X								X	X									X	X						
var. microcarpon (Hedw.) Boul.		X	X								X										X	X						
var. sudeticum (Funck) Dix. ex Bauer		X	X																								X	
ORDER FUNARIALES																												
DISCELIACEAE																												
Disclium																												
nudum (Dicks.) Brid.																X	X				X	X						
EPHEMERACEAE																												
Ephemerum																												
cohaerens (Hedw.) Hampe						X						X																
crassinervium (Schwaegr.) Hampe	X			X								X																
serratum (Hedw.) Hampe												X																
spinulosum Bruch & Schimp. ex Schimp.												X										X						
Micromitrium																												
austini Aust.																					X							
megalosporum Aust.																					X							
FUNARIACEAE																												
Aphanorrhema																												
serratum (J. Hook. & Wils. ex Drumm.) Sull.																X	X	X	X	X	X	X	X	X	X	X		
Funaria																												
flavicans Michx.					X		L					X				X	X	X	X	X	L	X	X	X	X	X		
hygrometrica Hedw. var. hygrometrica	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
var. calvescens (Schwaegr.) Mont.												V																
Physcomitrella																												
patens (Hedw.) B.S.G.						X	X					L	X															
Physcomitrium																												
hookeri Hampe																X												
immersum Sull.													X	X			X											
pyriforme (Hedw.) Hampe	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
SPLACHNACEAE																										
<i>Splachnum</i>																										
<i>ampullaceum</i> Hedw.						X				X																
<i>rubrum</i> Hedw.						X																				
<i>Tayloria</i>																										
<i>serrata</i> (Hedw.) B.S.G.							X																			
<i>Tetraplodon</i>																										
<i>angustatus</i> (Hedw.) B.S.G.						X															X					
<i>mnioides</i> (Hedw.) B.S.G.						X						X									X					
ORDER SCHISTOSTEGALES																										
SCHISTOSTEGACEAE																										
<i>Schistostega</i>																										
<i>pennata</i> (Hedw.) Web. & Mohr						X	X				X										X	X	X			
ORDER EUBRYALES																										
BRYACEAE																										
<i>Bryum</i>																										
<i>algovicum</i> Sendt. ex C. Muell.																										
<i>alpinum</i> With.																										
<i>angustirete</i> Kindb. ex Macoun																										
<i>argenteum</i> Hedw.	X	X	X	X	X	X		X			X	X	X	X	X						X	X	X	X	X	X
<i>bicolor</i> Dicks.																										
<i>caespiticium</i> Hedw.	X		X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>capillare</i> Hedw. var. <i>flaccidum</i> (Brid.) B.S.G.	X	X	X			X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>creberimum</i> Tayl.	X	X	X			X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>gemmiparum</i> De Not.																										
<i>muehlenbeckii</i> B.S.G.																										
<i>pallens</i> (Brid.) Sw. ex Roehl.		X	X					X	X																	
<i>pallescens</i> Schleich. ex Schwaegr.			X								X															
<i>pseudotriquetrum</i> (Hedw.) Gaertn., Meyer & Scherb. var. <i>pseudotriquetrum</i>	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
var. <i>bimum</i> (Schreb.) Lilj.																										
<i>tenuisetum</i> Limpr.																										
<i>tortifolium</i> Funck ex Brid.																										
<i>turbinatum</i> (Hedw.) Turn.		X						X				X														
<i>uliginosum</i> (Brid.) B.S.G.	X	X					X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>weigelii</i> Spreng.								X																		
<i>Leptobryum</i>																										
<i>pyriforme</i> (Hedw.) Wils.	X	X				X	X	X	X		X	X	X	L	X	X	X	X	X	X	X	X	X	X	X	
<i>Mielichhoferia</i>																										
<i>mielichhoferi</i> (Funck ex Hook.) Loeske																										
<i>Pohlia</i>																										
<i>annotina</i> (Hedw.) Lindb. var. <i>annotina</i>	X	X																								
var. <i>decipiens</i> Loeske	X	X																								
<i>atropurpurea</i> (Wahlenb.) H. Lindb.																										
<i>bulbifera</i> (Warnst.) Warnst.	X	X																								
<i>carnea</i> (Turn.) Lindb.																										
<i>cruda</i> (Hedw.) Lindb.	X	X																								
<i>drummondii</i> (C. Muell.) Andr.	X	X																								
<i>elongata</i> Hedw.	X	X																								
<i>filiformis</i> (Dicks.) Andr.		X																								
<i>lescuriana</i> (Sull.) Grout		X						X																		
<i>longicolla</i> (Hedw.) Lindb.			X																							
<i>nutans</i> (Hedw.) Lindb.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>prolifera</i> (Kindb. ex Limpr.) Lindb.																										
ex Arnell			X	X																						
<i>rothii</i> (Corr. ex Limpr.) Broth.		X	X																							
<i>sphagnicola</i> (B.S.G.) Lindb. & Arnell		X	X																							
<i>wahlenbergii</i> (Web. & Mohr) Andr.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>Rhodobryum</i>																										
<i>roseum</i> (Hedw.) Limpr.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
MNIACEAE																										
Cinclidium																										
<i>stygium</i> Sw.											X															
Mnium																										
<i>ciliare</i> (C. Muell.) Schimp.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>cinclidiooides</i> Hueb.			X	X		X	X				X	X	X	X			X		X		X				X	
<i>cuspidatum</i> Hedw.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>drummondii</i> Bruch & Schimp.			X								X	X	L	X			X	X	X	X						
<i>hormum</i> Hedw.			X	X							L	L					X	X	X	X						
<i>hymenophylloides</i> Hueb.			X	X													X									X
<i>lycopodioides</i> Schwaegr.			M	X							X		L				X	X								
<i>marginatum</i> (With.) Brid. ex P.-Beauv.			X			X	X	X	X	X	X	X	L	X		X	X	X	X	X	X				V	
<i>medium</i> B.S.G.				X		X	X	L	X	X					X	X	X	X	X							
<i>punctatum</i> Hedw. var. <i>punctatum</i>	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
var. <i>elatum</i> Schimp.	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>rostratum</i> Schrad.			X	X							X		X	X		X	X	X	X	X	X	X	L	X	X	
<i>rugicum</i> Laur.			X																							
<i>spinulosum</i> B.S.G.			X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	L				
<i>stellare</i> Hedw.			X	X			X		X		X		X	L	X	X	X	X	X	X	X	L				
<i>thomsonii</i> Schimp.			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X						
AULACOMNIACEAE																										
Aulacomnium																										
<i>androgynum</i> (Hedw.) Schwaegr.	X	X				L	X				X															
<i>heterostichum</i> (Hedw.) B.S.G.		X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>palustre</i> (Hedw.) Schwaegr.	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>turgidum</i> (Wahlenb.) Schwaegr.		X																								
MEESIACEAE																										
Amblyodon																										
<i>dealbatus</i> (Hedw.) B.S.G.																			X							
Meesia																										
<i>longiseta</i> Hedw.												X							X							
<i>triquetra</i> (Richt.) Ångstr.												X	L	X					X							
<i>uliginosa</i> Hedw.												X	L						X							
Paludella																										
<i>squarrosa</i> (Hedw.) Brid.							X												X							
CATASCOPIACEAE																										
Catascopium											X															
<i>nigritum</i> (Hedw.) Brid.											X															
BARTRAMIACEAE																										
Bartramia																										
<i>ithyphylla</i> Brid.													X													
<i>pomiformis</i> Hedw. var. <i>pomiformis</i>	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
var. <i>elongata</i> Turn.																										
Conostomum											X															
<i>tetragonum</i> (Hedw.) Lindb.											X															
Philonotis																										
<i>fontana</i> (Hedw.) Brid. var. <i>fontana</i>	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
var. <i>americana</i> (Dism.) Flot. ex Crum											X															
var. <i>caespitosa</i> (Jur.) Schimp.												L		X		L	X		X	L	X		X			
<i>longiseta</i> (Michx.) Britt. var. <i>longiseta</i>														?												
var. <i>porteri</i> (Aust.) Flot.																										
<i>marchica</i> (Hedw.) Brid.																										
<i>muhlenbergii</i> (Schwaegr.) Brid.	X	L				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Plagiopus																										
<i>oederiana</i> (Sw.) Limpr.	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
TIMMIACEAE																										
Timmia																										
<i>megapolitana</i> Hedw.						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
ORDER ISOBRYALES																										
PTYCHOMITRIACEAE																										
<i>Campylostelium</i>																										
<i>saxicola</i> (Web. & Mohr) B.S.G.																										
<i>Ptychomitrium</i>																										
<i>incurvum</i> (Schwaegr.) Spruce																										
ORTHOTRICHACEAE																										
<i>Amphidium</i>																										
<i>lapponicum</i> (Hedw.) Schimp.	X	X									X	X			X	X	X	X	X	X						
<i>mougeotii</i> (B.S.G.) Schimp.	X	X																								
<i>Drummondia</i>																										
<i>prorepens</i> (Hedw.) Britt.			X				L	X			X	X	X	X			X	X	X						X	
<i>Orthotrichum</i>																										
<i>anomalum</i> Hedw.	X	X	X	X	X		X	X	X		X	X	X	X			X	X								
<i>cupulatum</i> Brid.				X	L						X															X
<i>obtusifolium</i> Brid.	X	X	X				X	X			X						X	X	X							
<i>ohioense</i> Sull. & Lesq. ex Aust.	X	M	X				X	X			X	X					X	X	X		X	X	X	X	X	
<i>pumilum</i> Sw.		X	L	X			X	X	L		X	X	X	X		X	X	X	X	X	X	X	X	X	X	
<i>pusillum</i> Mitt.											X		X	X			X	X						L	L	X
<i>sordidum</i> Sull. & Lesq. ex Aust.																		X	X							
<i>speciosum</i> Nees ex Sturm. var. <i>elegans</i> (Schwaegr. ex Hook. & Grev.) Warnst.		X	X				X		X		X						X	X								
<i>stellatum</i> Brid.		X															X	X	X					L	X	
<i>strangulatum</i> P.-Beauv.		X					X		X		X	X	X	X		X	X	X	X	X	X	X	X	X	X	
<i>Ulota</i>																										
<i>coarctata</i> (P.-Beauv.) Hamm.	X	X	X				X	X			X	X	X	X		X	X	X	X		X			L		
<i>crispa</i> (Hedw.) Brid.	X	X	X	X			X	X	X	X	X	V	X	L	X	X	X	X	X	X	X	X	X	X	X	
<i>hutchinsiae</i> (Sm.) Hamm. var. <i>hutchinsiae</i> var. <i>rufescens</i> (Britt.) Dix.	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>Zygodon</i>																										
<i>viridissimum</i> (Dicks.) Brid. var.																										
<i>rupestris</i> Lindb. ex C. J. Hartm.		X	X																							
FONTINALACEAE																										
<i>Dichylema</i>																										
<i>capillaceum</i> (With.) Myr.		X	X					X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	
<i>falcatum</i> (Hedw.) Myr.								X				X					X	X								
<i>pallescens</i> B.S.G.		X						X	X	X		X	X		X										X	
<i>uncinatum</i> Mitt.								M																		
<i>Fontinalis</i>																										
<i>antipyretica</i> Hedw.	X	X	X					X	X			X	X	X	L		X	X	X	X	X	X	X	X	X	
<i>dalecarlica</i> Schimp. ex B.S.G.		X	X					X	X	X		L	L	X			X	X	X	X					X	
<i>flaccida</i> Ren. & Card.								X																	L	
<i>hypnoides</i> C. J. Hartm. var. <i>hypnoides</i> var. <i>duriae</i> (Schimp.) Husn.	X							X	X	X		X	X	X	X	V	L									
<i>novae-angliae</i> Sull. var. <i>novae-angliae</i>	X	X	L				X	X	X		X	X	L	X		X	X	X	X	X	X	X	X	X	X	
var. <i>cymbifolia</i> (Aust.) Welch							X										X	X								
var. <i>latifolia</i> Card. ex Nich.							X	X								X		X								
<i>sullivantii</i> Lindb.							X				X							X			X	X		L	X	
CLIMACIACEAE																										
<i>Climacium</i>																										
<i>americanum</i> Brid.	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>dendroides</i> (Hedw.) Web. & Mohr		X	X	X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HEDWIGIACEAE																										
<i>Hedwigia</i>																										
<i>ciliata</i> (Hedw.) P.-Beauv.	X	X	X	X	X		X	X	X	X	X	X	L	X		X	X	X	X	X	X	X	X	X	X	
CRYPHAEACEAE																										
<i>Forsstroemia</i>																										
<i>trichomitria</i> (Hedw.) Lindb.								X	X			X	X	X	X		X	X	X	X						

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
LEUCODONTACEAE																										
Leucodon																										
<i>brachypus</i> Brid. var. <i>brachypus</i>					X			X	X		X		X	X		X	X	X				X				
var. <i>andrewsianus</i> Crum & Anderson	X	X	X	X		X	X	X	X		X		L	X	X	X	X	X				X	X	X	X	L
<i>juraceus</i> (Hedw.) Sull.					X			X		X						L		X		X	X	X	X			
NECKERACEAE																										
Homalia																										
<i>trichomanoides</i> (Hedw.) B.S.G.					X	X				X	X		X		X	X	X		X							
Neckera																										
<i>complanata</i> (Hedw.) Hueb.																										L
<i>pennata</i> Hedw. var. <i>pennata</i>	X	X						X			X	X	X	X		X	X	X		X						X
var. <i>tenera</i> C. Muell.					X					L	X						V									
Thamnobryum																										
<i>alleganiense</i> (C. Muell.) Nieuwl.	X	X	X	X			X			X		X	X	X		X	X	X		X	X					
ORDER HYPNOBRYALES																										
THELIACEAE																										
Myurella																										
<i>julacea</i> (Schwaegr.) B.S.G.		X	X						X							X			X							
<i>sibirica</i> (C. Muell.) Reim.	X	X					X	X		X		X	X	X		L	X	X		X						
Thelia																										
<i>asprella</i> Sull.						X	X		X		X		X	X	X		X	X	X	X	X	X	L	X	X	
<i>hirtella</i> (Hedw.) Sull.						X						X	L	X		X	X	X		X	X	X	X	X	X	
<i>lescurii</i> Sull.									X								X	X		X	X	X	L	X	X	
FABRONIACEAE																										
Anacamptodon																										
<i>splachnoides</i> (Froel. ex Brid.) Brid.	X	X									X	X	X			X	X		X						X	
Schwetschkeopsis																										
<i>fabronia</i> (Schwaegr.) Broth.											?		?						X		X					
LESKEACEAE																										
Leskea																										
<i>gracilescens</i> Hedw.						L						X		L		X			V							
<i>obscura</i> Hedw.		X		X		X	X	X		X		X	X	L	X		X	X		X	X	X				
<i>polycarpa</i> Hedw.	X		X			X	X	X	X		X	X	X	X	X		L	X	X							
Leskeella																										
<i>nervosa</i> (Brid.) Loeske		X	X	X			X	X			X							X								
Lindbergia						L						V			X			L			X					
Pseudoleskeella											X															
<i>tectorum</i> (Funck ex Brid.) Kindb. ex Broth.																										
Pterigynandrum																										
<i>filiforme</i> Hedw.	X	X	X					X		X								X	X		X					
THUIDIACEAE																										
Anomodon																										
<i>attenuatus</i> (Hedw.) Hueb.	X	X	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
<i>minor</i> (Hedw.) Fuernr.		X	X	X	X	L	X		X		X	X	X			L	X	X	X							
<i>rostratus</i> (Hedw.) Schimp.	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X		
<i>rugelii</i> (C. Muell.) Keissl.	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X		
<i>viticulosus</i> (Hedw.) Hook. & Tayl.	X	X	V		X	X		X		X		X	X			X	X									
Haplocladium																										
<i>microphyllum</i> (Hedw.) Broth.						X	X		L	X	X	L	X			X	X			X	L	X	X	X		
<i>virginianum</i> (Brid.) Broth.						X			X	X	V	X	X			X	X		X	X						
Haplohymenium																										
<i>triste</i> (Ces. ex De Not.) Kindb.																	X	X	X							
Helodium																										
<i>blandowii</i> (Web. & Mohr) Warnst. var. <i>blandowii</i>		X	X	X		X	X	X	X		X	X	X	X		X	X	X	X		X					
var. <i>helodiooides</i> (Ren. & Card. ex Roell) Crum, Steere & Anderson																									L	
<i>paludosum</i> (Sull.) Aust.						X					X	X	X	X		X	X			X	X	X	X	X	X	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Heterocladium																											
dimorphum (Brid.) B.S.G.						X		V																			
Thuidium																											
abietinum (Hedw.) B.S.G.	X	X	X	X	X	X		X	X	X	X					X	X	X	X	X	X						
allenii Aust.						L																M					
delicatum (Hedw.) B.S.G. var. delicatum	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
var. radicans (Kindb.) Crum, Steere & Anderson						X	X	X								L	X									X	
minutulum (Hedw.) B.S.G.						X	X									X	X									X	
pygmaeum B.S.G.						X	X	X								X										X	
recognitum (Hedw.) Lindb.						X	M	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X		
scitum (P.-Beauv.) Aust.						X	X									X	L	X		X		X	X	X	L		
AMBLYSTEGIACEAE																											
Amblystegium																											
juratzkanum Schimp.						M	X	X	X	X	L	X	X	X	X	X										X	
serpens (Hedw.) B.S.G.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	L	X	X		
varium (Hedw.) Lindb. var. varium	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	L	X	X	X	X	X	X	X	X	L		
var. lancifolium Grout						X					X																
Calliergon																											
cordifolium (Hedw.) Kindb.	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
giganteum (Schimp.) Kindb.		X				X	X				X	X	X	X	X	X	X				X	X		X	X		
sarmentosum (Wahlenb.) Kindb.						X																					
stramineum (Brid.) Kindb.		X	X				X				X	X															
trifarium (Web. & Mohr) Kindb.						X																					
Calliergonella																											
cuspidata (Hedw.) Loeske		X	X	X		X		X	X	X	X	L	L	X	X	X	X	X	X	X	X	L	X	X	X		
Campylium																											
chrysophyllum (Brid.)																											
J. Lange var. chrysophyllum	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	L		
var. brevifolium (Ren. & Card.) Grout																											
hispidulum (Brid.) Mitt.	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
polygamum (B.S.G.) Jens.		X				X	X				X	X	X	X	X	V	X	X	X	X					V		
radicale (P.-Beauv.) Grout		M	L								L		V	X	X	X	X	X	X	X	X	X	X	X	X		
stellatum (Hedw.) C. Jens. var. stellatum		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
var. protensum (Brid.) Bryhn																											
ex Grout																V											X
Cratoneuron																											
commutatum (Hedw.) Roth							L				?		X														
filicinum (Hedw.) Spruce						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Drepanocladus																											
aduncus (Hedw.) Warnst. var. aduncus		X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	V	X	X	X	X	X	X		
var. capillifolius (Warnst.) Riehm.																											
var. kneiffii (B.S.G.) Moenk.																											
exannulatus (B.S.G.) Warnst.	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	L	X		
fluitans (Hedw.) Warnst.		X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
revolvens (Sw.) Warnst.		X	X			X					X	X	X	X	X	X	X	X	X	X	X	X	X	X			
uncinatus (Hedw.) Warnst.		X	X				X				X	X	X	X	X	X	X	X	X	X	X	X	X	X			
vernicosus (Lindb. ex C. Hartm.) Warnst.		X	X			X					X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Hygroamblystegium																											
fluviatile (Hedw.) Loeske		X				X					L	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
noterophilum (Sull. & Lesq. ex Sull.) Warnst.																											
tenax (Hedw.) Jenn.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	V	X	X	X	X		
Hygrohypnum																											
closteri (Aust.) Grout																											
eumontanum Crum, Steere & Anderson		X	X					X			L					X											X
eugyrium (B.S.G.) Loeske		X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
luridum (Hedw.) Jenn.	X	X				X					X	X	X	X	X	X	X	X	X	X	X	X	X	X			
molle (Hedw.) Loeske		X	X					X			L	X				X	X	X	X	X	X	X	X	X			
novae-caesareae (Aust.) Grout																											
ochraceum (Turn. ex Wils.) Loeske		X	X					X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Leptodictyum																										
<i>riparium</i> (Hedw.) Warnst.	X	X	X	X	X	X	X	X	X	X	X	L	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>trichopodium</i> (Schultz) Warnst.					X	L	X	L			L	X	X	X	X						L	X		X		
<i>vacillans</i> (Sull.) Broth.																		X								
Sciromium																										
<i>lescurii</i> (Sull.) Broth.					X				X										X					X		
Scorpidium																										
<i>scorpioides</i> (Hedw.) Limpr.	X	X				X	X	X	X	X	X		X	X	X	X					X				X	
BRACHYTHECIACEAE																										
Brachythecium																										
<i>acuminatum</i> (Hedw.) Aust.	X	X				X	X	L			X	X	L	X	X	X	X	X	X	X	X	X	X	X	X	
<i>acutum</i> (Mitt.) Sull.					X	X	X	X	X	X	L	L	X	X	X	X					L	X		X		
<i>calcareum</i> Kindb.	X					X	X	X					X	X												
<i>campestre</i> (C. Muell.) B.S.G.	X	X				L					X	X	X	X	X	X	X	X	X	X	X	L	X		X	
<i>curtum</i> (Lindb.) Limpr.	X	X						X	X	X		X	X	X	X	X	X	X	X	X						
<i>digastrum</i> C. Muell. & Kindb. ex Macoun & Kindb.																										
<i>erythrorrhizum</i> B.S.G.																										
<i>oxycladon</i> (Brid.) Jaeg. & Sauerb. var. <i>oxycladon</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>var. dentatum</i> (Lesq. & James) Grout		X																								
<i>plumosum</i> (Hedw.) B.S.G.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>populeum</i> (Hedw.) B.S.G. var. <i>populeum</i>			X	M		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>var. rufescens</i> B.S.G.																										
<i>reflexum</i> (Starke ex Web. & Mohr) B.S.G.	X	X							X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>rivulare</i> B.S.G.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>rutabulum</i> (Hedw.) B.S.G.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>salebrosum</i> (Web. & Mohr) B.S.G. var. <i>salebrosum</i>			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>var. flaccidum</i> B.S.G.																										
<i>velutinum</i> (Hedw.) B.S.G.	X	X																								
Bryhnia																										
<i>graminicola</i> (Brid.) Grout	X	X				X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>novae-angliae</i> (Sull. & Lesq. ex Sull.) Grout	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bryoandersonia																										
<i>illecebra</i> (Hedw.) Robins.							X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Cirriphyllum																										
<i>piliferum</i> (Hedw.) Grout											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Eurhynchium																										
<i>hians</i> (Hedw.) Sande Lac.						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>pulchellum</i> (Hedw.) Jenn.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>riparioides</i> (Hedw.) Rich.	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Homalotheciella																										
<i>subcapillata</i> (Hedw.) Broth.																										
Isothecium																										
<i>eumyosuroides</i> Dix.																										
Rhynchostegiella																										
<i>compacta</i> (C. Muell.) Loeske																										
Rhynchostegium																										
<i>serrulatum</i> (Hedw.) Jaeg. & Sauerb.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Tomenthypnum																										
<i>nitens</i> (Hedw.) Loeske var. <i>nitens</i>						X		X	X	X	X	X	X	X	X	X	X	X	X							
<i>var. falcifolium</i> (Ren. ex Nichols.) Podp.									X																	
ENTODONTACEAE																										
Entodon																										
<i>brevisetus</i> (Hook. & Wils. ex Wils.) Lindb.																										
<i>cladorrhizans</i> (Hedw.) C. Muell.		X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>seductrix</i> (Hedw.) C. Muell.	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Pleurozium																										
<i>schreberi</i> (Brid.) Mitt.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
PLAGIOTHECIACEAE																										
Plagiothecium																										
<i>cavifolium</i> (Brid.) Iwats. var. <i>cavifolium</i>			X	X		X		L		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
var. <i>fallax</i> (Card. ex Thér.) Iwats.		X	X	X	X	X	X	X	X	X	L		X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>denticulatum</i> (Hedw.) B.S.G.		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>laetum</i> B.S.G.					M	X	X	X		L	X						L									
<i>latebricola</i> B.S.G.						X	X	L	L		X	X	X	X					X	X	X	X	X	V		
SEMATOPHYLLACEAE																										
Brotherella																										
<i>recurvans</i> (Michx.) Fleisch.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>tenuirostris</i> (Bruch & Schimp. ex Sull.) Fleisch.											X		X	X	X			V								
Sematophyllum																										
<i>adnatum</i> (Michx.) Britt.												?														X
<i>demissum</i> (Wils.) Mitt.											L	X					V	X	X	X	L	X				
<i>marylandicum</i> (C. Muell.) Britt.											X						X									
HYPNACEAE																										
Callicladium																										
<i>haldanianum</i> (Grev.) Crum		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	L	X	X	X	X	
Ctenidium																										
<i>molluscum</i> (Hedw.) Mitt.						X	X	L			X	X	X	X	X	X	X	X	X	X	X	X	X	L	X	
Herzogiella																										
<i>striatella</i> (Brid.) Iwats.		X	X	X		X	X	L	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>turfacea</i> (Lindb.) Iwats.			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Homomallium																										
<i>adnatum</i> (Hedw.) Broth.		X	X			X	X	X	X	X	X	X	X	X	X	L	X	X	X	X	X	X	X	X	X	
Hypnum																										
<i>cupressiforme</i> Hedw.				X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>curvifolium</i> Hedw.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>fertile</i> Sendtn.		X	X			X	L	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>imponens</i> Hedw.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>lindbergii</i> Mitt.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>pallescens</i> (Hedw.) P.-Beauv.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>pratense</i> Koch ex Brid.						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Isopterygiopsis																	L	L	X	X	X	X	X	X	X	X
<i>mulleriana</i> (Schimp.) Iwats.				X																						
Isopterygium																										
<i>distichaceum</i> (Mitt.) Jaeg. & Sauerb.		X	X															V								
<i>elegans</i> (Brid.) Lindb.		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>pulchellum</i> (Hedw.) Jaeg. & Sauerb.		X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>tenerum</i> (Sw.) Mitt.						X	L				X							X	X	X	X	X	X	X	X	X
Platidictya																										
<i>confervoides</i> (Brid.) Crum		X	X	X		L					X	X	L	X	X	X	L	X	X	X	X	X	X	X	X	
<i>jungermannioides</i> (Brid.) Crum					X		X																			
<i>minutissima</i> (Sull. & Lesq. ex Sull.) Crum		X		X	X	X	X	X	X	X	?			L			X	X	X	X						
<i>subtile</i> (Brid.) Crum		X	X	L	X	X	X	X	X	X															X	
Platygyrium																										
<i>repens</i> (Brid.) B.S.G.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Ptilium																										
<i>crista-castrensis</i> (Hedw.) De Not.		X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Pylaisiella																										
<i>intricata</i> (Hedw.) Grout		X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>polyantha</i> (Hedw.) Grout			M			X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>selwynii</i> (Kindb.) Crum, Steere & Anderson		X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	L	X				
Taxiphymum																										
<i>deplanatum</i> (Bruch & Schimp. ex Sull.) Fleisch.		X	X			X	X	L			X	L	L	X			X	X	X	X					X	
<i>taxirameum</i> (Mitt.) Fleisch.						L		L									X	X	X	X						

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
RHYTIIDIACEAE																										
Rhytidadelphus																										
<i>squarrosus</i> (Hedw.) Warnst.			X	X				X	X		X		X	X		X	X	X	X		V					
<i>triquetrus</i> (Hedw.) Warnst.		X	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	L	L		
Rhytidium																										
<i>rugosum</i> (Hedw.) Kindb.		X	X	X	X				X		X	X	X	X			X	X	X							
HYLOCOMIACEAE																										
Hylocomium																										
<i>brevirostre</i> (Brid.) B.S.G.			X	X				X	X	X	X		X	X	X	X	X	X	X	X						
<i>pyrenaicum</i> (Spruce) Lindb.			X	X									X													
<i>splendens</i> (Hedw.) B.S.G.		X	X	X	X			X	X	X	X		X	X	X	X	X	X	X	X			X			
<i>umbratum</i> (Hedw.) B.S.G.			X	X				X	X		L						X	X					X	X		
ORDER BUXBAUMIALES																										
BUXBAUMIACEAE																										
Buxbaumia																										
<i>aphylla</i> Hedw.		X						X	X	L	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>minakatae</i> Okam.			X	X				X	L	L	X		X	X			L									
Diphyscium																										
<i>foliosum</i> (Hedw.) Mohr		X	X	X			L	X	X	X	X	X	X	X	X	X	X	X	X	X	X	V	L	X	X	
ORDER TETRAPHIDALES																										
TETRAPHIDACEAE																										
Tetraphis																										
<i>pellucida</i> Hedw.		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Tetradontium																										
<i>brownianum</i> (Dicks.) Schwaegr.						X																				
ORDER POLYTRICHIALES																										
POLYTRICHACEAE																										
Atrichum																										
<i>altecristatum</i> (Ren. & Card.) Ireb.		X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>angustatum</i> (Brid.) B.S.G.		X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>crispum</i> (James) Sull.			X	X				X	X	X	X	X														
<i>oerstedianum</i> (C. Muell.) Mitt.			X	X									X				X	X								
<i>undulatum</i> (Hedw.) P.-Beauv.			X																							
Pogonatum																										
<i>alpinum</i> (Hedw.) Roehl.		X	X						X		X						X	X	X	X						
<i>brachyphyllum</i> (Michx.) P.-Beauv.																						X				
<i>dentatum</i> (Brid.) Brid.						X												X								
<i>peninsulanum</i> (Hedw.) P.-Beauv.		X	X	X				X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>urnigerum</i> (Hedw.) P.-Beauv.			X	X					X		X						X	X	X		X					
Polytrichum																										
<i>commune</i> Hedw.		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>formosum</i> Hedw.			X	X													X	X								
<i>longisetum</i> Brid.						X					L	L						X	X							
<i>juniperinum</i> Hedw.		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>ohioense</i> Ren. & Card.		X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>pallidisetum</i> Funck			X	X							X			X			X	X	X							
<i>piliferum</i> Hedw.		X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>strictum</i> Brid.		X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

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Contributions Completed to Date¹

1. Mitchell, Richard S. and J. Kenneth Dean, 1978, Polygonaceae, (Buckwheat Family) of New York State. Contributions to a Flora of New York State I. N. Y. State Museum Bull. No. 431, 81 p.
2. Mitchell, Richard S. and Ernest O. Beal, 1979. Magnoliaceae through Ceratophyllaceae of New York State. Contributions to a Flora of New York State II. N. Y. State Museum Bull. No. 435, 62 p.
3. Ketchledge, Edwin H. 1980. Revised Checklist of the Mosses of New York State. Contributions to a Flora of New York State, Checklist I. N. Y. State Museum Bull. No. 440, 19 p.

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